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TITLE: Additive with a combustion promoting and **soot** inhibiting activity for furnace **oils, diesel** fuels and other liquid combustion and fuel substances, as well as the aforesaid liquid combustion and fuel substances.

PUBN-DATE: May 4, 1983

INVENTOR-INFORMATION:

NAME	COUNTRY
KAES, GERTRUDE DIPL-ING	N/A

ASSIGNEE-INFORMATION:

NAME	COUNTRY
LANG CHEM TECH PROD	AT

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INT-CL (IPC): C10L001/10, C10L001/14

EUR-CL (EPC): C10L001/10 ; C10L001/14

US-CL-CURRENT: 208/16

ABSTRACT:

CHG DATE=19990617 STATUS=O>1. Additive with a combustion-promoting and **soot**-inhibiting action for fuel **oils, diesel** motor fuels and other liquid burner fuels and motor fuels, especially those having a final boiling point above 300? C under normal pressure, the additive containing one or more **oil**-soluble and/or **oil**-dispersible compounds, which are active in catalysing combustion, of transition metals, such as iron, **manganese,** molybdenum, cobalt, nickel or copper, and/or alkaline earth metals and one or more inhibitors of polymerization and oxidation of hydrocarbons, characterized in that the **oil**-soluble and/or **oil**-dispersible compounds, which are active in catalysing combustion, of alkaline earth metals are those of calcium, strontium and/or barium and that the inhibitor present is an oxidation and polymerization inhibitor based on sterically hindered, heat-stable alkylphenols of an average molecular weight of 280 or based on N-phenylnaphthylamine (molecular weight 219), the inhibitor having such a heat stability that, as a result of its vapour pressure and/or its decomposition temperature, it can be exposed at least for short periods under normal pressure to temperatures of 300? C and higher without loss of its polymerization-inhibiting action.